

5046



PCT10

#4

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/031,660

DATE: 02/07/2002

TIME: 09:53:03

Input Set : A:\ippf0714usn.app.txt

Output Set: N:\CRF3\02072002\J031660.raw

4 <110> APPLICANT: INCYTE GENOMICS, INC.
 5 YUE, Henry
 6 TANG, Y. Tom
 7 BANDMAN, Olga
 8 HILLMAN, Jennifer L.
 9 LAL, Preeti
 10 AU-YOUNG, Janice
 11 REDDY, Roopa
 12 YANG, Junming
 13 BAUGHN, Mariah R.
 14 LU, Dyung Aina M.
 15 AZIMZAI, Yalda
 16 PATTERSON, Chandra
 18 <120> TITLE OF INVENTION: GTP-BINDING ASSOCIATED PROTEINS
 20 <130> FILE REFERENCE: PF-0714 PCT
 C--> 22 <140> CURRENT APPLICATION NUMBER: US/10/031,660
 C--> 23 <141> CURRENT FILING DATE: 2002-01-16
 25 <150> PRIOR APPLICATION NUMBER: 60/144,595; 60/150,460; 60/159,849
 W--> 26 <151> PRIOR FILING DATE: 1999-07-19; 1999-08-23; 1999-10-15
 28 <160> NUMBER OF SEQ ID NOS: 132
 29 <170> SOFTWARE: PERL Program
 31 <210> SEQ ID NO: 1
 32 <211> LENGTH: 269
 33 <212> TYPE: PRT
 34 <213> ORGANISM: Homo sapiens
 36 <220> FEATURE:
 37 <221> NAME/KEY: misc_feature
 38 <223> OTHER INFORMATION: Incyte ID No: 1405545CD1
 40 <400> SEQUENCE: 1
 41 Met Pro Ala Val Leu Glu Arg Leu Ser Arg Tyr Asn Ser Thr Ser
 42 1 5 10 15
 43 Gln Ala Phe Ala Glu Val Leu Arg Leu Pro Lys Gln Gln Leu Arg
 44 20 25 30
 45 Lys Leu Leu Tyr Pro Leu Gln Glu Val Glu Arg Phe Leu Ala Pro
 46 35 40 45
 47 Tyr Gly Arg Gln Asp Leu His Leu Arg Ile Phe Asp Pro Ser Pro
 48 50 55 60
 49 Glu Asp Ile Ala Arg Ala Asp Asn Ile Phe Thr Ala Thr Glu Arg
 50 65 70 75
 51 Asn Arg Ile Asp Tyr Val Ser Ser Ala Val Arg Ile Asp His Ala
 52 80 85 90
 53 Pro Asp Leu Pro Arg Pro Glu Val Cys Phe Ile Gly Arg Ser Asn
 54 95 100 105

ENTERED

RAW SEQUENCE LISTING

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DATE: 02/07/2002

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Input Set : A:\ippf0714usn.app.txt

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55 Val Gly Lys Ser Ser Leu Ile Lys Ala Leu Phe Ser Leu Ala Pro
56          110          115          120
57 Glu Val Glu Val Arg Val Ser Lys Lys Pro Gly His Thr Lys Lys
58          125          130          135
59 Met Asn Phe Phe Lys Val Gly Lys His Phe Thr Val Val Asp Met
60          140          145          150
61 Pro Gly Tyr Gly Phe Arg Ala Pro Glu Asp Phe Val Asp Met Val
62          155          160          165
63 Glu Thr Tyr Leu Lys Glu Arg Arg Asn Leu Lys Arg Thr Phe Leu
64          170          175          180
65 Leu Val Asp Ser Val Val Gly Ile Gln Lys Thr Asp Asn Ile Ala
66          185          190          195
67 Ile Glu Met Cys Glu Glu Phe Ala Leu Pro Tyr Val Ile Val Leu
68          200          205          210
69 Thr Lys Ile Asp Lys Ser Ser Lys Gly His Leu Leu Lys Gln Val
70          215          220          225
71 Leu Gln Ile Gln Lys Phe Val Asn Met Lys Thr Gln Gly Cys Phe
72          230          235          240
73 Pro Gln Leu Phe Pro Val Ser Ala Val Thr Phe Ser Gly Ile His
74          245          250          255
75 Leu Leu Arg Cys Phe Ile Ala Ser Val Thr Gly Ser Leu Asp
76          260          265
77 <210> SEQ ID NO: 2
78 <211> LENGTH: 428
79 <212> TYPE: PRT
80 <213> ORGANISM: Homo sapiens
82 <220> FEATURE:
83 <221> NAME/KEY: misc_feature
84 <223> OTHER INFORMATION: Incyte ID No: 1451265CD1
86 <400> SEQUENCE: 2
87 Met Glu Val Ala Val Cys Thr Asp Ser Ala Ala Pro Met Trp Ser
88 1          5          10          15
89 Cys Ile Val Trp Glu Leu His Ser Gly Ala Asn Leu Leu Thr Tyr
90          20          25          30
91 Arg Gly Gly Gln Ala Gly Pro Arg Gly Leu Ala Leu Leu Asn Gly
92          35          40          45
93 Glu Tyr Leu Leu Ala Ala Gln Leu Gly Lys Asn Tyr Ile Ser Ala
94          50          55          60
95 Trp Glu Leu Gln Arg Lys Asp Gln Leu Gln Gln Lys Ile Met Cys
96          65          70          75
97 Pro Gly Pro Val Thr Cys Leu Thr Ala Ser Pro Asn Gly Leu Tyr
98          80          85          90
99 Val Leu Ala Gly Val Ala Glu Ser Ile His Leu Trp Glu Val Ser
100          95          100          105
101 Thr Gly Asn Leu Leu Val Ile Leu Ser Arg His Tyr Gln Asp Val
102          110          115          120
103 Ser Cys Leu Gln Phe Thr Gly Asp Ser Ser His Phe Ile Ser Gly
104          125          130          135
105 Gly Lys Asp Cys Leu Val Leu Val Trp Ser Leu Cys Ser Val Leu

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RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/031,660

DATE: 02/07/2002

TIME: 09:53:03

Input Set : A:\ippf0714usn.app.txt

Output Set: N:\CRF3\02072002\J031660.raw

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106          140          145          150
107 Gln Ala Asp Pro Ser Arg Ile Pro Ala Pro Arg His Val Trp Ser
108          155          160          165
109 His His Thr Leu Pro Ile Thr Asp Leu His Cys Gly Phe Gly Gly
110          170          175          180
111 Pro Leu Ala Arg Val Ala Thr Ser Ser Leu Asp Gln Thr Val Lys
112          185          190          195
113 Leu Trp Glu Val Ser Ser Gly Glu Leu Leu Leu Ser Val Leu Phe
114          200          205          210
115 Asp Val Ser Ile Met Ala Val Thr Met Asp Leu Ala Glu His His
116          215          220          225
117 Met Phe Cys Gly Gly Ser Glu Gly Ser Ile Phe Gln Val Asp Leu
118          230          235          240
119 Phe Thr Trp Pro Gly Gln Arg Glu Arg Ser Phe His Pro Glu Gln
120          245          250          255
121 Asp Ala Gly Lys Val Phe Lys Gly His Arg Asn Gln Val Thr Cys
122          260          265          270
123 Leu Ser Val Ser Thr Asp Gly Ser Val Leu Leu Ser Gly Ser His
124          275          280          285
125 Asp Glu Thr Val Arg Leu Trp Asp Val Gln Ser Lys Gln Cys Ile
126          290          295          300
127 Arg Thr Val Ala Leu Lys Gly Pro Val Thr Asn Ala Ala Ile Leu
128          305          310          315
129 Leu Ala Pro Val Ser Met Leu Ser Ser Asp Phe Arg Pro Ser Leu
130          320          325          330
131 Pro Leu Pro His Phe Asn Lys His Leu Leu Gly Ala Glu His Gly
132          335          340          345
133 Asp Glu Pro Arg His Gly Gly Leu Thr Leu Arg Leu Gly Leu His
134          350          355          360
135 Gln Gln Gly Ser Glu Pro Ser Tyr Leu Asp Arg Thr Glu Gln Leu
136          365          370          375
137 Gln Ala Val Leu Cys Ser Thr Met Glu Lys Ser Val Leu Gly Gly
138          380          385          390
139 Gln Asp Gln Leu Arg Val Arg Val Thr Glu Leu Glu Asp Glu Val
140          395          400          405
141 Arg Asn Leu Arg Lys Ile Asn Arg Asp Leu Phe Asp Phe Ser Thr
142          410          415          420
143 Arg Phe Ile Thr Arg Pro Ala Lys
144          425
145 <210> SEQ ID NO: 3
146 <211> LENGTH: 562
147 <212> TYPE: PRT
148 <213> ORGANISM: Homo sapiens
150 <220> FEATURE:
151 <221> NAME/KEY: misc_feature
152 <223> OTHER INFORMATION: Incyte ID No: 1556311CD1
154 <400> SEQUENCE: 3
155 Met Pro Glu Thr Val Asn His Asn Lys His Gly Asn Val Ala Leu
156 1          5          10          15

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PATENT APPLICATION: US/10/031,660

DATE: 02/07/2002

TIME: 09:53:03

Input Set : A:\ippf0714usn.app.txt

Output Set: N:\CRF3\02072002\J031660.raw

```

157 Pro Gly Thr Lys Pro Thr Pro Ile Pro Pro Pro Arg Leu Lys Lys
158                20                25                30
159 Gln Ala Ser Phe Leu Glu Ala Glu Gly Gly Ala Lys Thr Leu Ser
160                35                40                45
161 Gly Gly Arg Pro Gly Ala Gly Pro Glu Leu Glu Leu Gly Thr Ala
162                50                55                60
163 Gly Ser Pro Gly Gly Ala Pro Pro Glu Ala Ala Pro Gly Asp Cys
164                65                70                75
165 Thr Arg Ala Pro Pro Pro Ser Ser Glu Ser Arg Pro Pro Cys His
166                80                85                90
167 Gly Gly Arg Gln Arg Leu Ser Asp Met Ser Ile Ser Thr Ser Ser
168                95                100               105
169 Ser Asp Ser Leu Glu Phe Asp Arg Ser Met Pro Leu Phe Gly Tyr
170                110               115               120
171 Glu Ala Asp Thr Asn Ser Ser Leu Glu Asp Tyr Glu Gly Glu Ser
172                125               130               135
173 Asp Gln Glu Thr Met Ala Pro Pro Ile Lys Ser Lys Lys Lys Arg
174                140               145               150
175 Ser Ser Ser Phe Val Leu Pro Lys Leu Val Lys Ser Gln Leu Gln
176                155               160               165
177 Lys Val Ser Gly Val Phe Ser Ser Phe Met Thr Pro Glu Lys Arg
178                170               175               180
179 Met Val Arg Arg Ile Ala Glu Leu Ser Arg Asp Lys Cys Thr Tyr
180                185               190               195
181 Phe Gly Cys Leu Val Gln Asp Tyr Val Ser Phe Leu Gln Glu Asn
182                200               205               210
183 Lys Glu Cys His Val Ser Ser Thr Asp Met Leu Gln Thr Ile Arg
184                215               220               225
185 Gln Phe Met Thr Gln Val Lys Asn Tyr Leu Ser Gln Ser Ser Glu
186                230               235               240
187 Leu Asp Pro Pro Ile Glu Ser Leu Ile Pro Glu Asp Gln Ile Asp
188                245               250               255
189 Val Val Leu Glu Lys Ala Met His Lys Cys Ile Leu Lys Pro Leu
190                260               265               270
191 Lys Gly His Val Glu Ala Met Leu Lys Asp Phe His Met Ala Asp
192                275               280               285
193 Gly Ser Trp Lys Gln Leu Lys Glu Asn Leu Gln Leu Val Arg Gln
194                290               295               300
195 Arg Asn Pro Gln Glu Leu Gly Val Phe Ala Pro Thr Pro Asp Phe
196                305               310               315
197 Val Asp Val Glu Lys Ile Lys Val Lys Phe Met Thr Met Gln Lys
198                320               325               330
199 Met Tyr Ser Pro Glu Lys Lys Val Met Leu Leu Leu Arg Val Cys
200                335               340               345
201 Lys Leu Ile Tyr Thr Val Met Glu Asn Asn Ser Gly Arg Met Tyr
202                350               355               360
203 Gly Ala Asp Asp Phe Leu Pro Val Leu Thr Tyr Val Ile Ala Gln
204                365               370               375
205 Cys Asp Met Leu Glu Leu Asp Thr Glu Ile Glu Tyr Met Met Glu

```

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PATENT APPLICATION: US/10/031,660

DATE: 02/07/2002

TIME: 09:53:03

Input Set : A:\ippf0714usn.app.txt

Output Set: N:\CRF3\02072002\J031660.raw

```

206          380          385          390
207 Leu Leu Asp Pro Ser Leu Leu His Gly Glu Gly Gly Tyr Tyr Leu
208          395          400          405
209 Thr Ser Ala Tyr Gly Ala Leu Ser Leu Ile Lys Asn Phe Gln Glu
210          410          415          420
211 Glu Gln Ala Ala Arg Leu Leu Ser Ser Glu Thr Arg Asp Thr Leu
212          425          430          435
213 Arg Gln Trp His Lys Arg Arg Thr Thr Asn Arg Thr Ile Pro Ser
214          440          445          450
215 Val Asp Asp Phe Gln Asn Tyr Leu Arg Val Ala Phe Gln Glu Val
216          455          460          465
217 Asn Ser Gly Cys Thr Gly Lys Thr Leu Leu Val Arg Pro Tyr Ile
218          470          475          480
219 Thr Thr Glu Asp Val Cys Gln Ile Cys Ala Glu Lys Phe Lys Val
220          485          490          495
221 Gly Asp Pro Glu Glu Tyr Ser Leu Phe Leu Phe Val Asp Glu Thr
222          500          505          510
223 Trp Gln Gln Leu Ala Glu Asp Thr Tyr Pro Gln Lys Ile Lys Ala
224          515          520          525
225 Glu Leu His Ser Arg Pro Gln Pro His Ile Phe His Phe Val Tyr
226          530          535          540
227 Lys Arg Ile Lys Asn Asp Pro Tyr Gly Ile Ile Phe Gln Asn Gly
228          545          550          555
229 Glu Glu Asp Leu Thr Thr Ser
230          560
231 <210> SEQ ID NO: 4
232 <211> LENGTH: 229
233 <212> TYPE: PRT
234 <213> ORGANISM: Homo sapiens
236 <220> FEATURE:
237 <221> NAME/KEY: misc_feature
238 <223> OTHER INFORMATION: Incyte ID No: 1901373CD1
240 <400> SEQUENCE: 4
241 Met Ala Glu Asp Lys Thr Lys Pro Ser Glu Leu Asp Gln Gly Lys
242 1          5          10          15
243 Tyr Asp Ala Asp Asp Asn Val Lys Ile Ile Cys Leu Gly Asp Ser
244          20          25          30
245 Ala Val Gly Lys Ser Lys Leu Met Glu Arg Phe Leu Met Asp Gly
246          35          40          45
247 Phe Gln Pro Gln Gln Leu Ser Thr Tyr Ala Leu Thr Leu Tyr Lys
248          50          55          60
249 His Thr Ala Thr Val Asp Gly Arg Thr Ile Leu Val Asp Phe Trp
250          65          70          75
251 Asp Thr Ala Gly Gln Glu Arg Phe Gln Ser Met His Ala Ser Tyr
252          80          85          90
253 Tyr His Lys Ala His Ala Cys Ile Met Val Phe Asp Val Gln Arg
254          95          100          105
255 Lys Val Thr Tyr Arg Asn Leu Ser Thr Trp Tyr Thr Glu Leu Arg
256          110          115          120

```

Use of n and/or Xaa has been detected in the Sequence Listing.
 Review the Sequence Listing to insure a corresponding
 explanation is presented in the <220> to <223> fields of
 each sequence using n or Xaa.

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/031,660

DATE: 02/07/2002

TIME: 09:53:04

Input Set : A:\ippf0714usn.app.txt

Output Set: N:\CRF3\02072002\J031660.raw

L:22 M:270 C: Current Application Number differs, Replaced Current Application Number
L:23 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:26 M:256 W: Invalid Numeric Header Field, Wrong Prior FILING DATE:YYYY-MM-DD
L:3920 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:61
L:6637 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:119
L:6756 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:122
L:6757 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:122
L:6969 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:127